

TABLE I—CANISTER TESTING PARAMETERS

Ventilation rates (Lpm, ATPS <sup>1</sup> )	Breathing machine tidal volumes (L)	Breathing machine frequencies (breaths per min.)	CO <sub>2</sub> injection rates (Lpm, STPD <sup>2</sup> )
22.5 .....	1.5	15	0.90
40.0 .....	2.0	20	1.35
62.5 .....	2.5	25	2.25

<sup>1</sup> ATPS means ambient temperature and pressure, saturated with water.

<sup>2</sup> STPD means standard temperature and pressure, dry; the standard temperature is 32 degrees F (0 degrees C).

(v) When using a work rate (*i.e.*, breathing-machine tidal volume and frequency) other than the work rates listed in the table above, addition of the appropriate combinations of ventilation rates and CO<sub>2</sub>-injection rates;

(vi) Performance of the CO<sub>2</sub> injection at a constant (steady) and continuous rate during each testing trial;

(vii) Determination of canister duration using a minimum of four (4) water temperatures, including 40, 50, 70, and 90 degrees F (4.4, 10.0, 21.1, and 32.2 degrees C, respectively);

(viii) Monitoring of the breathing-gas temperature at the rebreather mouthpiece (at the “chrome T” connector), and ensuring that this temperature conforms to the temperature of a diver’s exhaled breath at the water temperature and ventilation rate used during the testing trial;<sup>1</sup>

(ix) Implementation of at least eight (8) testing trials for each combination of temperature and ventilation-CO<sub>2</sub>-injection rates (for example, eight testing trials at 40 de-

grees F using a ventilation rate of 22.5 Lpm at a CO<sub>2</sub>-injection rate of 0.90 Lpm);

(x) Allowing the water temperature to vary no more than  $\pm 2.0$  degrees F ( $\pm 1.0$  degree C) *between* each of the eight testing trials, and no more than  $\pm 1.0$  degree F ( $\pm 0.5$  degree C) *within* each testing trial;

(xi) Use of the average temperature for each set of eight testing trials in the statistical analysis of the testing-trial results, with the testing-trial results being the time taken for the inhaled breathing gas to reach 0.005 ATA of CO<sub>2</sub> (*i.e.*, the canister-duration results);

(xii) Analysis of the canister-duration results using the repeated-measures statistics described in NEDU Report 2-99;

(xiii) Specification of the replacement schedule for the CO<sub>2</sub>-sorbent materials in terms of the lower prediction line (or limit) of the 95% confidence interval; and

(xiv) Derivation of replacement schedules only by interpolating among, but not by extrapolating beyond, the depth, water temperatures, and exercise levels used during canister testing.

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### Subparts U–Y [Reserved]

§§ 1910.901–1910.999 [Reserved]

<sup>1</sup>NEDU can provide the manufacturer with information on the temperature of a diver’s exhaled breath at various water temperatures and ventilation rates, as well as techniques and procedures used to maintain these temperatures during the testing trials.

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